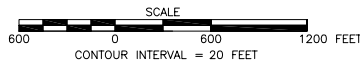


LEGEND:

- 7000 POST-MINE CONTOUR & ELEVATION, FEET  
RIVER  
POND OR LAKE  
STREAM - PERENNIAL  
STREAM - INTERMITTENT  
HIGHWAY  
ROAD  
RAILROAD  
P4 PRODUCTION HAUL ROAD (ACTIVE & INACTIVE)  
MINE PIT LOCATION (APPROXIMATE WHERE COVERED BY BACKFILL)  
WASTE ROCK PILE LOCATION  
WASTE ROCK PILE LOCATION OR PIT BACKFILL (APPROXIMATE)  
FAULT  
TRUST FAULT  
APPROXIMATE OR INFERRED FAULT  
AXIS SYNCLINE  
AXIS ANTICLINE  
APPROXIMATE OWNERSHIP BOUNDARY  
SECTION LINES  
SECTION NUMBER  
BLM LANDS  
US NATIONAL FORESTS  
STATE LANDS  
INDIAN RESERVATION  
NON FEDERAL LANDS  
GROUNDWATER MONITORING WELL LOCATION  
GROUNDWATER MONITORING WELL LOCATION INSTALLED IN 2008  
ALLUVIAL AQUIFER WELL  
INTERMEDIATE AQUIFER - GENERALLY DINWOODY FM WELL  
REGIONAL AQUIFER - WELLS FM WELL  
AQUIFER UNKNOWN OR MULTIPLE AQUIFERS SCREENED  
WASTE ROCK DUMP SEEP  
SPRING STATION (ALLUVIAL SOURCE)  
STREAM STATION  
GROUNDWATER STATION ID  
GROUNDWATER SAMPLING TOTAL SPRING SELENIUM RESULT (mg/L)  
GROUNDWATER SAMPLING TOTAL FALL SELENIUM RESULT (mg/L)

STATION TYPE:

- MAW = AGRICULTURAL WELL  
MDS = WASTE ROCK DUMP SEEP  
MDW = DOMESTIC WELL  
MMP = MINE PIT  
MMW = MONITORING WELL  
MPW = PRODUCTION WELL  
MSG = SPRING STATION  
MSP = POND  
MST = STREAM STATION  
MWD = WASTE ROCK DUMP



N:\Design-Drafting\Clients - I-P\Moranito-P4 Production\1005813 2008 DSR\013 Sheet Set\1005813D0099

REV	DESCRIPTION	TECH	ENG	DATE
2	FINAL	CHF	CLF	06/19/09
1	REVISION ISSUED FOR AGENCY REVIEW	CHF	CLF	05/13/09
0	ISSUED DRAFT FOR AGENCY REVIEW	CHF	CLF	03/05/09

DISCLAIMER:  
THIS DRAWING WAS DEVELOPED THROUGH THE APPLICATION OF PROFESSIONAL ENGINEERING SKILL AND PROPRIETARY METHODOLOGIES, PROCESSES, AND KNOW HOW OF MWH AS AUTHOR, ALL PURSUANT TO THE TERMS OF A CONTRACTUAL SCOPE OF WORK GOVERNING ITS PREPARATION. THIS DRAWING MAY NOT BE USED OR MODIFIED OTHER THAN IN STRICT ACCORDANCE WITH THE TERMS OF THE AUTHORIZING CONTRACT AND SCOPE OF WORK OR OTHERWISE ABSENT THE INVOLVEMENT AND CONSENT OF THE AUTHORIZING PARTY. ANY ALTERATION OR ADAPTATION OF THIS DRAWING SHALL BE CONSISTENT WITH THE AUTHOR'S CONTRACTUAL AND PROPRIETARY RIGHTS AND BE AT USER'S SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL RESPONSIBILITY OF MWH.

DRAWING REFERENCE(S):  
1. POST-MINE TOPOGRAPHY GENERATED FROM:  
• USGS DIGITAL ELEVATION MODELS (DEM)-24K  
• SURVEY DATA FOR BALLARD MINE PROVIDED BY OLYMPUS AERIAL SURVEYS, INC. DATED: JUNE 2005  
• SURVEY DATA FOR HENRY MINE AREA PROVIDED BY OLYMPUS AERIAL SURVEYS, INC. DATED: NOVEMBER 2008  
• SURVEY DATA FOR ENOCH VALLEY MINE AREA PROVIDED BY P4 PRODUCTION DATED: DECEMBER 2007.

PROJECTION:  
STATE PLANE COORDINATE SYSTEM  
ZONE 10  
IDAHO EAST  
DATUM:  
NAD27  
VERTICAL DATUM:  
NAVD29  
UNITS:  
U.S. FEET

DESIGNED BY	C.FOULK	06/19/09
DRAWN BY	E.MARKS	06/19/09
CHECKED BY	C.FOULK	06/19/09
APPROVED BY	C.FOULK	06/19/09
PROJECT MANAGER	C.FOULK	06/19/09
CLIENT APPROVAL		
CLIENT REFERENCE NO.		

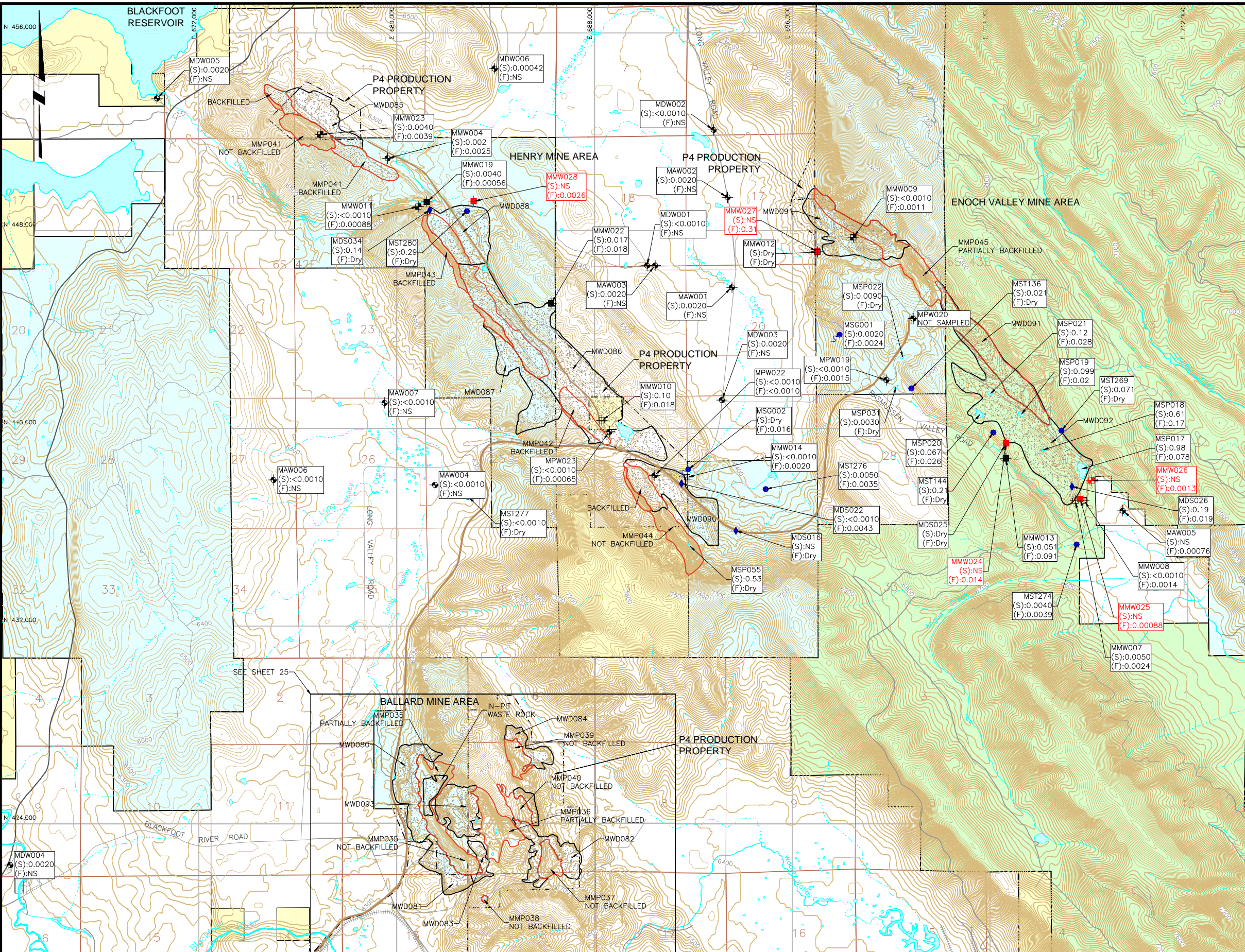
P4 PRODUCTION  
SITE INVESTIGATION

PROJECT LOCATION	BALLARD, HENRY AND ENOCH VALLEY MINES
PROJECT	2007 AND 2008 DATA SUMMARY REPORT
TITLE	2008 GROUNDWATER SAMPLING RESULTS BALLARD MINE

SHEET	25 of 30	REVISION	2
FILE NAME	1005813D099		



N:\Design-Drafting\Clients - I-P\Worship-P4 Production\1005813\Sheet Set\1005813D100

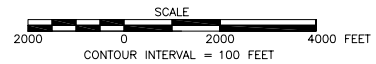


**LEGEND:**

- 7000 POST-MINE CONTOUR & ELEVATION, FEET
- RIVER
- POND OR LAKE
- STREAM - PERENNIAL
- STREAM - INTERMITTENT
- HIGHWAY
- ROAD
- RAILROAD
- P4 PRODUCTION HAUL ROAD (ACTIVE & INACTIVE)
- MINE PIT LOCATION (APPROXIMATE WHERE COVERED BY BACKFILL)
- WASTE ROCK PILE LOCATION
- WASTE ROCK PILE LOCATION OR PIT BACKFILL (APPROXIMATE)
- FAULT
- TRUST FAULT
- APPROXIMATE OR INFERRED FAULT
- AXIS SYNCLINE
- AXIS ANTICLINE
- APPROXIMATE OWNERSHIP BOUNDARY
- SECTION LINES
- SECTION NUMBER
- BLM LANDS
- US NATIONAL FORESTS
- STATE LANDS
- INDIAN RESERVATION
- NON FEDERAL LANDS
- MW022 GROUNDWATER MONITORING WELL LOCATION
- MMW024 GROUNDWATER MONITORING WELL LOCATION INSTALLED IN 2008
- ALLUVIAL AQUIFER WELL
- INTERMEDIATE AQUIFER - GENERALLY DINWOODY FM WELL
- REGIONAL AQUIFER - WELLS FM WELL
- AQUIFER UNKNOWN OR MULTIPLE AQUIFERS SCREENED
- WASTE ROCK DUMP SEEP
- SPRING STATION (ALLUVIAL SOURCE)
- STREAM STATION
- MMW017 GROUNDWATER STATION ID
- (S):0.10 GROUNDWATER SAMPLING TOTAL SPRING SELENIUM RESULT (mg/L)
- (F):0.10 GROUNDWATER SAMPLING TOTAL FALL SELENIUM RESULT (mg/L)

**STATION TYPE:**

- MAW = AGRICULTURAL WELL
- MDS = WASTE ROCK DUMP SEEP
- MDW = DOMESTIC WELL
- MMP = MINE PIT
- MMW = MONITORING WELL
- MPW = PRODUCTION WELL
- MSG = SPRING STATION
- MSP = POND
- MST = STREAM STATION
- MWD = WASTE ROCK DUMP

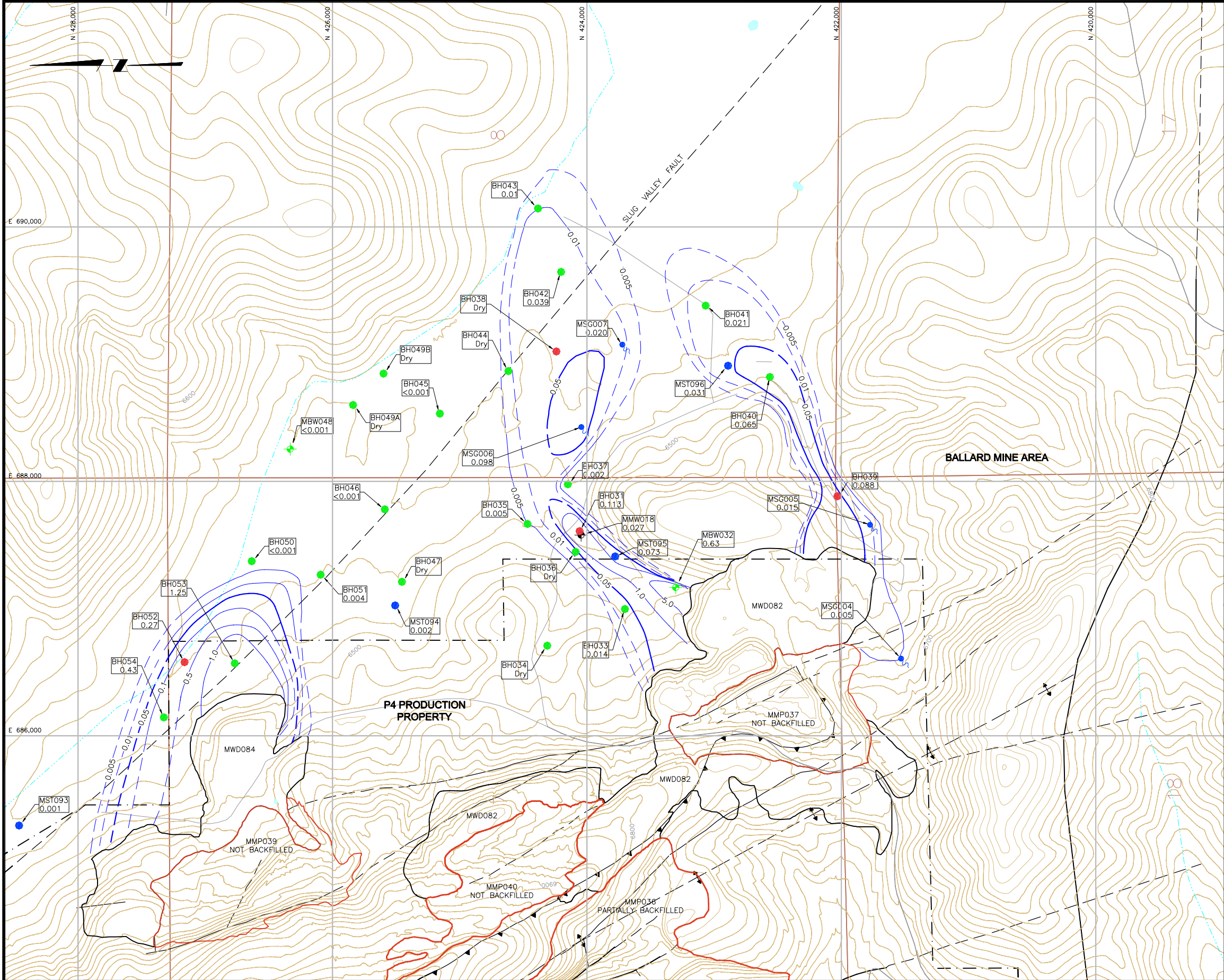


--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

P4 PRODUCTION  
SITE INVESTIGATION







**LEGEND:**

7000

POST-MINE CONTOUR & ELEVATION, FEET

POND OR LAKE

POND OR LAKE

STREAM - PERENNIAL

STREAM - PERENNIAL

STREAM - INTERMITTENT

STREAM - INTERMITTENT

MINE PIT LOCATION

MINE PIT LOCATION

WASTE ROCK PILE LOCATION

WASTE ROCK PILE LOCATION

HIGHWAY

HIGHWAY

ROAD

ROAD

RAILROAD

RAILROAD

P4 PRODUCTION HAUL ROAD (ACTIVE & INACTIVE)

P4 PRODUCTION HAUL ROAD (ACTIVE & INACTIVE)

0.05

TOTAL SELENIUM ISOCONCENTRATION CONTOUR (mg/L)

0.05

INFERRED TOTAL SELENIUM ISOCONCENTRATION CONTOUR (mg/L)

FAULT

FAULT

TRUST FAULT

TRUST FAULT

APPROXIMATE OR INFERRED FAULT

APPROXIMATE OR INFERRED FAULT

AXIS SYNCLINE

AXIS SYNCLINE

AXIS ANTICLINE

AXIS ANTICLINE

APPROXIMATE OWNERSHIP BOUNDARY

APPROXIMATE OWNERSHIP BOUNDARY

SECTION LINES

SECTION LINES

A

SECTION NUMBER

BLM LANDS

BLM LANDS

US NATIONAL FORESTS

US NATIONAL FORESTS

STATE LANDS

STATE LANDS

INDIAN RESERVATION

INDIAN RESERVATION

NON FEDERAL LANDS

NON FEDERAL LANDS

MMW022

GROUNDWATER MONITORING WELL LOCATION

MBW009

DIRECT-PUSH MONITORING WELL INSTALLED IN 2008

DIRECT-PUSH BOREHOLE STAGE 1

DIRECT-PUSH BOREHOLE STAGE 2

SPRING STATION

STREAM STATION

BH039

DIRECT PUSH, ALLUVIAL WELL, SPRING OR HEADWATER STREAM

0.088

LOCATION WITH TOTAL SELENIUM CONCENTRATION IN mg/L

- NOTES:**
1. WHERE WELLS ARE NESTED IN THE ALLUVIAL FLOW SYSTEM (I.E. SHALLOW AND DEEPER) THE HIGHEST MEASURED CONCENTRATION IS USED FOR CONTOURING.

2. SPRING 2008 TOTAL SELENIUM CONCENTRATIONS ARE USED FOR MONITORING WELLS, SPRINGS AND HEADWATER STREAMS WHERE APPROPRIATE.
- ISOCONCENTRATION CONTOUR INTERVAL=LOG WITH SUPPLEMENTAL HALF CYCLE CONTOURS.

- STATION TYPE:**
- BH = DIRECT-PUSH BOREHOLE

MAW = AGRICULTURAL WELL

MBW = DIRECT-PUSH MONITORING WELL

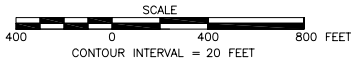
MMP = MINE PIT

MMW = MONITORING WELL

MWD = WASTE ROCK DUMP

MSG = SPRING STATION

MST = STREAM STATION



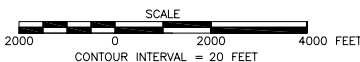
				<b>DISCLAIMER:</b> THIS DRAWING WAS DEVELOPED THROUGH THE APPLICATION OF PROFESSIONAL ENGINEERING SKILL AND PROPRIETARY METHODOLOGIES, PROCESSES, AND KNOW HOW OF MWH AS AUTHOR, ALL PURSUANT TO THE TERMS OF A CONTRACTUAL SCOPE OF WORK GOVERNING ITS PREPARATION. THIS DRAWING MAY NOT BE USED OR MODIFIED OTHER THAN IN STRICT ACCORDANCE WITH THE TERMS OF THE GOVERNING CONTRACT AND SCOPE OF WORK OR OTHERWISE ABSENT THE INVOLVEMENT AND CONSENT OF THE AUTHOR. ANY ALTERATION OR ADAPTATION OF THIS DRAWING SHALL BE CONSISTENT WITH THE AUTHOR'S CONTRACTUAL AND PROPRIETARY RIGHTS AND BE AT USER'S SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL RESPONSIBILITY OF MWH.				<b>DRAWING REFERENCE(S):</b> 1. POST-MINE TOPOGRAPHY GENERATED FROM: • USGS DIGITAL ELEVATION MODELS (DEM)-24K. • SURVEY DATA FOR BALLARD MINE PROVIDED BY OLYMPUS AERIAL SURVEYS, INC. DATED: JUNE 2005. • SURVEY DATA FOR HENRY MINE AREA PROVIDED BY OLYMPUS AERIAL SURVEYS, INC. DATED: NOVEMBER 2008. • SURVEY DATA FOR ENOCH VALLEY MINE AREA PROVIDED BY P4 PRODUCTION DATED: DECEMBER 2007.				<b>PROJECTION:</b> STATE PLANE COORDINATE SYSTEM ZONE: IDAHO EAST DATUM: NAD27 VERTICAL DATUM: NAVD29 UNITS: U.S. FEET				DESIGNED BY C.FOULK  DRAWN BY E.MARKS  CHECKED BY C.FOULK  APPROVED BY C.FOULK  PROJECT MANAGER C.FOULK  CLIENT APPROVAL  CLIENT REFERENCE NO.				06/19/09  06/19/09  06/19/09  06/19/09				<div><div>PROJECT LOCATION</div><div>BALLARD, HENRY AND ENOCH VALLEY MINES</div><div>PROJECT</div><div>2007 AND 2008 DATA SUMMARY REPORT</div><div>TITLE</div><div>DIRECT-PUSH SELENIUM ISOCONCENTRATION MAPS BALLARD MINE EAST</div></div> <div><div><div></div><div>MWH</div></div></div> <div><div>SHEET</div><div>27 of 30</div><div>REVISION</div><div>2</div></div> <div><div>FILE NAME</div><div>1005813D086</div></div>												
2	FINAL	CHF	CLF	06/19/09																																
1	REVISION ISSUED FOR AGENCY REVIEW	CHF	CLF	05/13/09																																
0	ISSUED DRAFT FOR AGENCY REVIEW	CHF	CLF	03/05/09																																
ISSUE	DESCRIPTION	TECH	ENG	DATE																																
REV																																				

N:\Design\Drafting\Clients\_L\P\Montana-P4\_Production\1005813 2008 DSR\013 Sheet Set\1004813D086







[illegible]



